ABSTRACT

A high output power inverter from a dc voltage source having a service line providing 22 to 36 Vdc from a battery service, the source having a ground return line, the power inverter with a toroidal transformer having an input transformer winding and a a secondary, the primary having a first end and a second end and a center tap. Switching means for switching the first end and the second end of the transformer alternately to ground during alternate half cycles. A dead time or non-conductive interval being interposed between the first end and the second end of the transformer being switched to ground. A control circuit for sensing the output voltage and for modulating the on-time of the switching means to maintain an output voltage within a predetermined range. An acoustic reference for a clock circuit, the clock circuit controlling the start of each power cycle.